

**Abstract**

HomeMeeting Inc. provides complete Internet service ([www.homemeeting.com](http://www.homemeeting.com)) for multipoint multimedia IP-communication network. To the best of our knowledge, this is the first attempt of fully Internet-based interactive multipoint multimedia WAN communication service with enhanced quality of service (QoS) and a complete suite of presentation/discussion functionalities over narrowband (as low as 26.4 Kbps) connections. Every registered member of this service can sign into the Member Meeting Center from HomeMeeting's website, schedule meeting, invite meeting participants, and pre-upload documents for online discussion. To avoid the need of multiple microphone requirement which is feasible for most low-end audio/video conferencing terminals, and to avoid the need of using very complex signal processing algorithms which call for higher computational needs and longer voice delay, in this invention, a low complexity and effective silence detection technique based on an intelligent determination of adaptive threshold value is proposed to enable real-time audio/video conferencing.